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EXAMINER

TANG, KAREN C

ART UNIT PAPER NUMBER

2151

DATE MAILED: 08/24/2006

Please find below and/or attached an Office communication concerning this application or proceeding.



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- This action is responsive to the amendment and remarks file on 7/12/06.
- Claims 1-28 are amended are for further examination.

## **DETAILED ACTION**

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-10, 12-17 and 25-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fulton et al hereinafter Fulton (US 2002/0010865) in view of Applicant Admitted Prior Art (AAPA).

1. Referring to Claims 1 and 25, Fulton teaches a method for providing authentication in a network having an AAA server, the method comprising:

receiving a request from a remote user for connection with a network (refer to 0025) at a virtual home gateway (PVC, refer to 0037, 0102);

associating the remote user with the network (refer to 0038, table 1, page 2).

sending a request to authenticate the remote user from the virtual home gateway to the AAA server (refer to 0060, 0101).

connecting the remote user to the network if the AAA server authenticate the user (refer to 0101).

A computer readable storage medium for storing the codes (computing device, which is inherently comprises memories that store codes, refer to 0025).

Fulton does not expressly disclose the network is virtual private network.

AAPA indicate the usage of virtual private network along with AAA server (page 1-6).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combined the teaching of Fulton and AAPA since the arts are analogous.

The suggestion/motivation for doing so by authenticating the remote user, it prevents unauthorized user from obtaining remote access to the users and demands substantial admin resources.

Fulton did not expressly indicate the AAA server located within said virtual private network.

AAPA indicate the server is within the virtual private network (refer to Page 3, Lines 17-21).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the teaching of Fulton and AAPA since the arts are analogous.

The suggestion/motivation for doing so by authenticating the remote user, it prevents unauthorized user from obtaining remote access to the users and demands substantial admin resources.

2. Referring to Claims 2 and 26, Fulton teaches wherein associating the remote user comprises receiving a network ID and address of an AAA server of the network (refer to 0060, 0064, 0198, 0226, 0298).

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Fulton does not expressly disclose the network is virtual private network.

AAPA indicate the usage of virtual private network along with AAA server (page 1-6).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combined the teaching of Fulton and AAPA since the arts are analogous.

The suggestion/motivation for doing so by authenticating the remote user, it prevents unauthorized user from obtaining remote access to the users and demands substantial admin resources.

3. Referring to Claim 3, Fulton teaches the network ID blinds a profile of the network to a routing table (refer to 0070) of the virtual home gateway (it is inherent that routing table comprises the network information so that can route data accordingly, refer to 0025, 0070, and 0090).

Fulton does not expressly disclose the network is virtual private network.

AAPA indicate the usage of virtual private network along with AAA server (page 1-6).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combined the teaching of Fulton and AAPA since the arts are analogous.

The suggestion/motivation for doing so by authenticating the remote user, it prevents unauthorized user from obtaining remote access to the users and demands substantial admin resources.

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4. Referring to Claims 4 and 27, Fulton teaches associating the remote user comprises sending a request to a service provider AAA server to authorize the remote user (authenticates, refer to 0038, Table 1, page 2, and paragraph 0101).

5. Referring to Claims 5 and 28, Fulton teaches wherein the service provider AAA server contains the address of the network's AAA server (refer to 0060 and 0064, 0097).

Fulton does not expressly disclose the network is virtual private network.

AAPA indicate the usage of virtual private network along with AAA server (page 1-6).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combined the teaching of Fulton and AAPA since the arts are analogous.

The suggestion/motivation for doing so by authenticating the remote user, it prevents unauthorized user from obtaining remote access to the users and demands substantial admin resources.

6. Referring to Claim 6, Fulton teaches wherein sending a request to authenticate the remote user comprises routing the request using a customer routing table of the network (refer to 0025, 0101, 0070, 0097).

Fulton does not expressly disclose the network is virtual private network.

AAPA indicate the usage of virtual private network along with AAA server (page 1-6).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the teaching of Fulton and AAPA since the arts are analogous.

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The suggestion/motivation for doing so by authenticating the remote user, it prevents unauthorized user from obtaining remote access to the users and demands substantial admin resources.

7. Referring to Claim 7, Fulton teaches wherein connecting the remote user to the network comprises setting up a PPP session for the remote user (refer to 0178, 0192, 0196, 0274).

Fulton does not expressly disclose the network is virtual private network.

AAPA indicate the usage of virtual private network along with AAA server (page 1-6).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the teaching of Fulton and AAPA since the arts are analogous.

The suggestion/motivation for doing so by authenticating the remote user, it prevents unauthorized user from obtaining remote access to the users and demands substantial admin resources.

8. Referring to Claim 8, Fulton teaches comprises sending an accounting request to the network's AAA server (refer to 0097).

Fulton does not expressly disclose the network is virtual private network.

AAPA indicate the usage of virtual private network along with AAA server (page 1-6).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combined the teaching of Fulton and AAPA since the arts are analogous.

The suggestion/motivation for doing so by authenticating the remote user, it prevents unauthorized user from obtaining remote access to the users and demands substantial admin resources.

9. Referring to Claim 9, Fulton teaches comprises sending an accounting request to the service provider's AAA server (refer to 0033, 0060, 0082, 0097).

10. Referring to Claim 10, Fulton teaches wherein accounting information sent to the network's AAA server is different than accounting information sent to the service provider's AAA server (refer to 0097, 0064, 0082).

Fulton does not expressly disclose the network is virtual private network.

AAPA indicate the usage of virtual private network along with AAA server (page 1-6).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the teaching of Fulton and AAPA since the arts are analogous.

The suggestion/motivation for doing so by authenticating the remote user, it prevents unauthorized user from obtaining remote access to the users and demands substantial admin resources.

11. Referring to Claim 12, Fulton teaches wherein associating a remote user with the network comprises identifying the network based on a dial-up phone number (PSTN, ISDN, 0101, and 0031).



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12. Referring to Claim 13, Fulton teaches wherein associating a remote user with the network comprises identifying the network based on the circuit ID (refer to 0031-0033, 0041, 0066, 0198, and 0226).

Fulton does not expressly disclose the network is virtual private network.

AAPA indicate the usage of virtual private network along with AAA server (page 1-6).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combined the teaching of Fulton and AAPA since the arts are analogous.

The suggestion/motivation for doing so by authenticating the remote user, it prevents unauthorized user from obtaining remote access to the users and demands substantial admin resources.

Claims 11, 18-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fulton et al hereinafter Fulton (US 2002/0010865) in view of Applicant Admitted Prior Art (AAPA) in further view of Hagan, W, Alexander hereinafter Hagan (US 2002/0075844).

1. Referring to Claim 11, Fulton teaches wherein associating a remote user with the network comprises identifying the network (refer 0038, Table 1, and page 2 0300-0302).

Fulton Nor AAPA discloses about the domain name.

Hagan discloses the domain name associated with the network (refer to 0049)

It would have obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of Hagan and Fulton because they both deal with accessing private network and their resources. Furthermore, the teaching of Hagen to allow wherein the

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information received from the remote user is a domain name would improve functionality of Fulton's system by maximizing communication compatibility of all participating user/clients and therefore increase efficiency of providing information over the network.

2. Referring to Claim 18, a system for providing authentication in a virtual private network having an AAA server, the system comprising:

a virtual home gateway (PVC, refer to 0038) configured to receive requests from a remote user for connection with a network (refer to 0102), send a request to authenticate the remote user to the AAA server of the virtual private network, and connect the remote user to the virtual private network (refer to 0101);

a database for storing addresses of network AAA server; and a processor (router, which comprises a processor, refer to 0104, ).

Fulton does not expressly disclose the network is virtual private network.

AAPA indicate the usage of virtual private network along with AAA server (page 1-6).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combined the teaching of Fulton and AAPA since the arts are analogous.

The suggestion/motivation for doing so by authenticating the remote user, it prevents unauthorized user from obtaining remote access to the users and demands substantial admin resources.

Fulton did not expressly indicate the AAA server located within said virtual private network.

AAPA indicate the server is within the virtual private network (refer to Page 3, Lines 17-21).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the teaching of Fulton and AAPA since the arts are analogous.

The suggestion/motivation for doing so by authenticating the remote user, it prevents unauthorized user from obtaining remote access to the users and demands substantial admin resources.

Fulton nor AAPA disclosed a processor operable to look up the address of the network based on information received from the remote user.

Hagan teaches a processor operable to look up the address of the network based on information received from the remote user (refer to 0061 and 0175).

At the time of the invention, it would have been obvious to a person of ordinary skill to the teaching of Hagan and Fulton because they both deal with accessing private network and their resources. Further, the teaching of Hagan to allow a processor operable to look up the address of the virtual private network AAA server based on information received from the remote user would improve functionality and efficiency of Fulton's system by integrating the communication protocol in order to execute instructions and transfer information to and from resources over the network.

3. Referring to Claim 19, Fulton wherein the information received from the remote user is a circuit ID (refer to 0031-0033, and 0041, 0066, and 0198, and 0226).

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4. Referring to Claim 20, Fulton does not expressly teach the method of claim 18, wherein the information received from the remote user is a domain name (refer to 0049).

It would have obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of Hagan and Fulton because they both deal with accessing private network and their resources. Furthermore, the teaching of Hagen to allow wherein the information received from the remote user is a domain name would improve functionality of Fulton's system by maximizing communication compatibility of all participating user/clients and therefore increase efficiency of providing information over the network.

5. Referring to Claim 21, wherein the information received from the remote user is a dial-up phone number (refer to 0031, 0198, 0237, and 0296).

6. Referring to Claim 22, wherein a service provider AAA server coupled to the virtual home gateway and configured to authorize the remote user (refer to 0038, 0101, table 1, page 2).

7. Referring to Claim 23, wherein the database includes network Ids used to bind network profiles to a routing table of the virtual home gateway (refer to 0025, 0070, 0277).

Fulton does not expressly disclose the network is virtual private network.

AAPA indicate the usage of virtual private network along with AAA server (page 1-6).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combined the teaching of Fulton and AAPA since the arts are analogous.

The suggestion/motivation for doing so by authenticating the remote user, it prevents unauthorized user from obtaining remote access to the users and demands substantial admin resources.

8. Referring to Claim 24, wherein the virtual home gateway comprises a plurality of routing tables corresponding to different network (refer to 0025, 0070).

Fulton does not expressly disclose the network is virtual private network.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the teaching of Fulton and AAPA since the arts are analogous.

The suggestion/motivation for doing so by authenticating the remote user, it prevents unauthorized user from obtaining remote access to the users and demands substantial admin resources.

### ***Response to Arguments***

Applicant's arguments filed 7/12/06 have been fully considered but they are not persuasive.

Applicant argued that the cited arts did not expressly disclose the server is within virtual private network.

Applicant also argued that cited reference Hagen teaches away from associating a remote user with a specific virtual private network by using a domain name to identify the desired virtual private network.

Examiner respectfully traverse the rejection. AAPA disclosed the server is within virtual private network (refer to Page 3, Lines 17-21).

Examiner disclosed that Fulton, AAPA, and Hagen, are all analogous arts. Hagen disclosed the limitation in which Fulton, and AAPA lacked, which disclosed associating a remote user with a specific virtual private network by using a domain name to identified the desired VPN. Hagan disclosed the associated a remote user with a specific virtual private network (see abstract), and in 0049 in Hagen's reference, it also indicates that the Wireless domain name is being used to for remote user to established the connection with particular network.

### *Conclusion*

Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

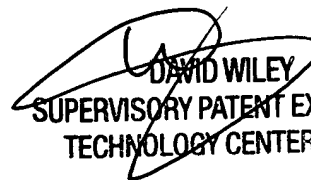
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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karen C. Tang whose telephone number is (571)272-3116. The examiner can normally be reached on M-F 7 - 3.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zarni Maung can be reached on (571)272-3939. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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